

IN THE CLAIMS:

92/7 1. (Twice Amended) A bicycle control device for holding a computer switch having an operation control button with an outer periphery having a shape, the device comprising:
a top surface defining a recess therein, wherein the operation control button is movable within the recess, and wherein the recess has a shape which conforms to the shape of the outer periphery of the operation control button.

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B1 3. (Twice Amended) A bicycle shift control device for holding a computer control switch having an operation control button with an outer periphery having a shape, the device comprising:

a top surface defining a recess therein, wherein the operation control button is movable within the recess, and wherein the recess is dimensioned to receive the computer control switch and has a shape conforming to the shape of the outer periphery of the operation control button.

4. (Twice Amended) A bicycle brake control device for holding a computer control switch having an operation control button with an outer periphery having a shape, the device comprising:

a top surface defining a recess therein, wherein the operation control button is movable within the recess, and wherein the recess is dimensioned to receive the computer control switch and has a shape conforming to the shape of the outer periphery of the operation control button.

5. (Twice Amended) A control device for holding a computer control switch having an operation control button with an outer periphery having a shape, the device comprising:

a brake control device;

a shift control device integrated with the brake control device;

a casing encompassing the brake control device and the shift control device, wherein the casing defines a recess therein; and

wherein the operation control button is movable within the recess, and wherein the recess is dimensioned to receive the computer control switch and has a shape conforming to the shape of the outer periphery of the operation control button.

6. (Twice Amended) A bicycle control device, comprising:

a casing defining a switch mounting recess; and
a control switch mounted in the switch mounting recess, wherein the control switch comprises an operation control button having an outer periphery having a shape, wherein the operation control button is movable within the switch mounting recess, and the switch mounting recess has a shape conforming to the shape of the outer periphery of the operation control button.

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7. The bicycle control device of claim 6 wherein the control switch is attached in the switch mounting recess by an adhesive.

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8. The bicycle control device of claim 6 wherein the switch mounting recess comprises a bottom surface and the bottom surface defines a hole therein, the operation control button having an attachment arm made of an elastic material, wherein the attachment arm is press fitted into the hole of the switch mounting recess.

9. The bicycle control device of claim 6 further comprising an elastic outer cover at least partially surrounding the control switch wherein the elastic outer cover is press fitted into the switch mounting recess.

10. The bicycle control device of claim 6 further comprising a retention ring configured to restrict the movement of the control switch.

11. The bicycle control device of claim 10 wherein the retention ring is fastened to the casing.

12. The bicycle control device of claim 11 wherein the retention ring is threadingly engaged with the switch mounting recess.

13. (Twice Amended) A bicycle control assembly for holding a control switch for a computer, the control switch having an operation control button with an outer periphery having a shape, the bicycle control assembly comprising:

a control device having a casing defining a switch mounting recess therein;
wherein the switch mounting recess is dimensioned to receive the control switch and has a shape conforming to the shape of the outer periphery of the operation control button, and
wherein the operation control button is movable with the switch mounting recess.

14. The bicycle control assembly of claim 13 wherein the control device comprises a shift control device.

15. The bicycle control assembly of claim 13 wherein the control device comprises a brake control device.

16. The bicycle control assembly of claim 13 wherein the control device comprises a shift control device and a brake control device.

17. The bicycle control assembly of claim 13 wherein the casing defines a cable mounting recess therein, the cable mounting recess is in communication with the switch mounting recess and extending from the switch mounting recess.

18. (Twice Amended) A handlebar assembly controllable by the hand of a bicycle rider, comprising:
a handlebar having an end;
a hand grip attached to the end of the handlebar;
a control device attached to the handlebar proximal the hand grip such that the rider's hand can reach the control device while remaining on the hand grip, the control device defining a switch mounting recess therein;
a control switch mounted in the switch mounted recess of the control device, wherein the control switch comprises an operation control button having an outer periphery having a shape and the switch mounting recess has a shape conforming to the shape of the outer periphery of the operation control button, and wherein the operation control button is movable within the switch mounting recess;
a cycle computer attached to the handlebar, separate from the control device; and
a connecting cable electrically connecting the control switch to the cycle computer.

19. The handlebar assembly of claim 18, wherein the control device further defines a cable mounting recess therein in communication with the switch mounting recess, wherein the cable mounting recess extends from the switch mounting recess in the direction of the cycle computer, and wherein a portion of the connecting cable is mounted in the cable mounting recess.

20. (Twice Amended) A method of installing a control switch having an operation control button with an outer periphery having a shape, comprising the steps of:

providing a control switch and a control device defining a switch mounting recess therein, wherein the switch mounting recess is dimensioned to receive the control switch and has a shape conforming to the outer periphery of the operation control button, and wherein the operation control button is movable within the switch mounting recess; and
securing the control switch in the switch mounting recess.

21. The method of claim 20 wherein the step of securing the control switch comprises adhesively attaching the control switch to the switch mounting recess.

22. The method of claim 20 further comprising the steps of:
providing an attachment arm connected to the control switch, wherein the attachment arm comprises an elastic material;
providing a bottom surface of the switch mounting recess, wherein the bottom surface defines a hole therein; and
press fitting the elastic material into the hole in the bottom surface of the switch mounting recess.

23. The method of claim 20 further comprising the steps of:
providing an elastic outer cover surrounding the control switch; and
press fitting the elastic outer cover into the switch mounting recess.

24. The method of claim 20 further comprising the steps of:
providing a retention ring; and
attaching the retention ring to the control device in a manner that restricts the movement of the control switch.

25. The method of claim 24 wherein the step of attaching the retention ring to the control device includes fastening the retaining ring to a top surface of the control device.

26. The method of claim 24 wherein the step of attaching the retention ring to the control device includes threadingly engaging the ring with the switch mounting recess.

27. The bicycle control device of claim 9 wherein the elastic outer cover is in frictional contact with and surrounded by a recess wall.